

ABSTRACTS

A novel transition metal compound wherein the transition metal belongs to group 4 of the periodic table and the transition metal compound
5 has a hydrogen atom ligand and three cyclopentadienyl ligands comprising at least one substituted cyclopentadienyl ligand. The novel transition metal ____ compound can be used as a component of a catalyst exhibiting high activity for olefin polymerization and is characteristic in containing no halogen element.